Table 1

Clone ID	3754 polyp	3755 polyp	3583 polyp	3311 tumor	3756 tumor	3757 tumor	3649 tumor	3647 tumor	3839 tumor	3581 tumor
1554043			-0.77				-1.25	-2.55	-0.94	
2344730	-2.26	-1.55	-1.65	-1.72	-1.71	-2.14	-1.29	-2.61	-2.06	-0.25
2921991	-1.30	-1.13	-1.10	-1.61	-0.08	-1.40	-1.50	0.12		-0.91
1805613	-1.18	-1.01	-0.10	-1.75	-1.62	-1.75	-0.66	-1.62		-0.93
1583076	-2.84	-3.10	-1.31	-2.93	-2.50	-0.95	-1.39	-2.01		-1.39
2771046	-2.19	-1.94	-2.50	-2.09	-1.92	-0.79	-0.63	-2.38		0.00
1804503	-3.45	-2.83	-1.85	-2.69	-2.58	-2.92	-2.91	-1.64	-3.99	0.17
1804503	-3.12	-2.56	-2.03	-2.70	-2.84	-3.09	-1.71	-0.98		-0.06
1560987	-1.46	-2.01	-0.13	-2.11	-1.44	-1.11	-0.90	-1.21		-0.19
1626523	-1.58	-2.42	-0.87	-1.92	-2.13	-2.02	0.07	-1.71		-1.23
4540779	-1.63	-1.76	-1.89	-0.93	-1.58	-1.98	-0.93	-2.05	-1.62	-1.38
3699582	-1.20	-1.03	-0.67	-1.16	-1.21	-1.08	-0.37	-1.57	-1.80	-0.63
698665	1.44	2.54	1.81	2.04	2.06	1.24	0.83	0.35		0.65
4002745	1.38	2.26	1.39	1.67	2.03	0.98	0.78	0.33	1.08	0.25
1630650	-1.55	-2.03	-0.98	-2.82	-2.24	-1.50	-1.42	-1.14	-1.50	-0.23
1630650	-1.89	-2.07	-1.26	-2.66	-2.71	-2.46	-1.30	-1.37		0.05
2129558	-1.70	-1.62	-1.32	-1.93	-1.51	-1.64	-1.14	-1.22	0.00	0.00
1738354	-2.24	-3.24	-1.82	-4.63	-3.77	-3.32	-2.94	-4.31	-3.65	-1.58
2767646	-2.17	-2.84	-1.92	-3.19	-3.51	-2.94	-2.94	-4.32	0.00	0.00
1932453	-4.31	-4.80	-1.38	-4.48	-4.29	-3.71	-2.03	-1.29	-3.46	-2.45
2516950	-1.16	-1.59	-1.40	-1.01	-0.95	-1.13	-1.80	-2.78	-2.38	-2.80
1806417	-3.06	-3.02	-1.06	-2.74	-2.98	-2.79	0.00	0.00		0.00
2512879	-2.78	-2.72	-1.22	-2.40	-2.57	-1.14	-1.58	-2.03		-1.35
5392053	-3.09	-2.11	0.01	-2.67	-2.09	-2.38	-1.90	0.00	0.00	-1.26
2054053	-1.24	-1.30	-1.26	-1.08	-0.83	-1.67	-0.21	-1.17		-1.74
1841735	-3.16	-3.31	-1.40	-3.10	-3.22	-2.69	-1.34	-1.69	-2.96	-1.19
1842009	-5.10	-4.43	-2.84	-5.14	-5.04	-4.45	-3.11	-4.90		-3.53
2697455	-1.62	-2.17	-1.68	-1.55	-1.30	-1.45	-0.83	-2.13	-1.37	-1.45
1403294	-1.23	-2.18	-0.65	-2.07	-1.10	-1.56	-0.54	-1.88		-2.03
496003	-1.14	-1.90	-1.18	-1.85	-0.77	-1.83	-0.76	-1.87		-2.27
1800114	-0.36	-1.11	-0.21	-2.40	-2.14	-1.30	-0.31	-1.55		-1.21
27775	-2.53	-1.70	-1.93	-1.73	-0.80	-1.13	-1.95	-1.15		-1.12
5038171	-2.18	-1.50	-0.30	-1.78	-1.59	-1.85	-1.17	0.00	0.00	-2.98
1417020							0.51	1.16	1.40	

Table 1

1800311	-4.11	-3.77	-2.13	-3.68	-3.36	-3.03	-2.31	-3.12	-3.24	-2.65
1846428	-3.24	-2.92	-2.22	-2.91	-2.94	-2.94	-2.41	-2.71		-1.78
1903267	2.43	-1.23	-0.23	1.22	-0.94	3.09	1.65	-3.50		0.00
609115	-1.52	-1.32	-1.38	-1.17	-0.77	-1.77	-0.49	-2.78		-0.54
3054669							-1.38	-2.36	-0.41	
2921194	-1.44	-1.93	-0.97	-1.34	-1.37	-1.25	-0.65	-2.37		-1.13
2150288	-1.32	-1.72	-1.26	-1.23	-1.14	-1.05	-0.56	-1.63	-0.99	-1.29
3977425	-1.69	-2.11	-1.68	-1.50	-1.27	-1.07	-0.71	-2.11		-1.18
990375	-1.95	-3.12	-1.76	-3.97	-4.35	-2.10	-1.60	-3.20		-1.74
2757583	-2.74	-2.54	-1.33	-2.58	-1.56	-1.39	-1.43	-2.30		-1.38
279898	-1.90	-2.36	-0.88	-1.78	-1.09	-1.38	-1.01	-2.07	-0.86	0.00
2955163	1.40	1.30	-0.08	1.96	2.09	1.69	1.37	0.81		0.00
1761086	-1.27	-1.66	-0.64	-1.95	-1.17	-1.20	-0.22	-1.53	-1.35	-1.31
3878420			-0.37				-0.79	-1.35	-1.11	
1807085	-1.14	-1.71	-1.28	-1.19	-0.98	-1.04	-0.73	-1.35	-1.23	-0.97
3888832	-2.15	-1.77	-0.17	-2.07	-1.31	-1.75	-1.20	-1.02		-0.92
1701847	-0.70	-1.73	-1.02	1.56	-1.85	-1.53	1.09	-1.03		0.00
1981145	-1.30	-1.30	-0.95	-1.18	-1.31	-1.54	0.39	-1.93		-0.23
1695477	-1.50	-1.58	-0.18	-1.42	-0.46	-1.62	-1.24	-1.26		-0.34
2060823	1.38	0.85	1.95	2.13	1.67	-0.09	2.72	-1.07	3.14	-0.96
2060823	1.55	0.91	1.88	2.10	1.73	0.06	2.13	-0.55		-1.01
1286257	-1.27	-1.42	-1.13	-1.32	-1.39	-1.01	-0.59	-1.35	-1.04	-0.42
1734393	-2.81	-3.60	-2.36	-2.72	-4.49	-2.75	-1.86	-3.65		-2.90
560466	1.77	1.38	1.79	1.70	1.85	1.30	1.33	0.53		1.21
2215563	-2.05	-2.40	-1.45	-1.41	-2.33	-1.90	-0.90	-2.79	-1.97	-2.14
2215563	-1.90	-2.17	-1.81	-1.31	-2.29	-1.67	-0.76	-2.62		-2.01
2513883	-2.44	-2.23	-0.49	-2.02	-1.21	-1.51	-0.66	-1.51		-0.47
1747339							-1.05	-1.94	-0.08	
417817	-2.48	-2.25	-1.13	-1.56	-1.42	-1.89	-0.96	-1.49	-1.86	-0.95
3206210	-1.43	-1.99	-1.28	-1.42	-0.27	-1.29	-0.33	-2.20		-1.30
957523	-1.43	-2.44	-0.95	-1.65	-0.75	-1.10	-0.15	-1.48	-1.45	-1.68
1988239	-1.28	-2.03	-1.22	-1.73	-1.59	-1.56	-0.31	-1.95	-1.70	-0.88
1988239	-1.26	-1.36	-1.11	-1.27	-1.36	-1.32	-0.62	-1.38		-0.56
2959255	-2.07	-2.27	-0.15	-1.63	-1.85	-1.50	-1.17	-2.02		-0.09
1806071	-1.96	-2.72	-2.08	-1.32	-2.19	-2.75	-0.97	-2.18		-1.30
1500810	-2.63	-2.53	-1.72	-3.79	-3.65	-2.80	-2.31	-2.77	-2.74	0.00

Table 1

1945315	-2.09	-2.02	-1.50	-2.74	-2.42	-2.45	-2.08	-2.44	-1.95	0.00
3560862	-2.20	-2.18	-1.72	-3.02	-2.87	-2.36	-2.06	-2.67	-2.08	-0.16
4796795	-2.85	-2.10	-1.56	-2.72	-2.01	-1.68	-1.88	-1.92	-2.32	-0.62
4289557							0.43	1.77	1.13	
1986901			-0.79				-1.37	-1.48	-1.65	
4151758	-1.26	-1.03	-1.16	-1.50	-0.80	-1.12	-0.27	-2.32	-0.98	-1.20
1431273	-1.04	-1.16	-1.97	-1.22	-1.29	-1.29	-0.68	-1.48		0.00
1578941	-1.79	-1.78	-1.69	-1.42	-1.24	-1.27	-1.71	-3.34	-2.51	0.00
1578941	-1.59	-1.61	-1.83	-1.38	-1.27	-1.73	-1.51	-2.77		-0.29
2900277	-1.32	-1.67	-0.08	-0.62	-2.25	-2.02	-1.27	-1.51		-0.16
1501080	-1.71	-1.94	0.04	-2.00	-1.79	-2.46	-0.53	-1.02		0.00
3119893							-0.70	-1.92	-1.37	
3552835	-2.19	-1.46	-1.25	-1.84	-2.00	-2.49	0.01	-3.39	1.35	-1.74
699410	-2.22	-1.49	-1.12	-1.81	-2.17	-2.75	-0.57	-2.68		-1.42
1604425							-1.05	-1.61	-0.05	
1632863							-1.24	-1.75	-0.30	
2771895							-1.17	-2.15	-0.10	
3395923							-1.78	-2.31	-0.37	
2046165	-1.97	-1.85	-1.05	-0.73	-1.08	-1.55	-1.22	-1.29	-0.89	-0.43
1998428	-1.01	-1.44	-0.52	-0.90	0.88	-1.33	1.39	-2.30		-1.09
605219			-0.24				-2.24	-1.62	-0.74	
1809178	-1.55	-1.62	-1.61	-1.43	-1.10	-1.90	-0.89	-2.49	-0.70	-1.92
991163	-1.65	-1.46	-2.04	-1.32	-1.34	-2.17	-0.83	-2.20		-2.20
444676	-2.08	-2.15	-0.77	-1.65	-2.10	-2.56	-0.49	-1.29		-0.83
3031144	-2.02	-1.46	-1.09	-1.49	-1.95	-1.10	-1.10	-1.29		-1.26
3075739	-1.92	-1.31	-1.53	-1.22	-1.56	-1.11	-1.08	-1.65	-1.85	-2.40
1424624	-3.51	-2.59	-0.76	-3.18	-3.28	-2.68	-2.54	-1.39		0.00
1772981	-2.30	-1.86	-1.20	-2.06	-1.74	-1.91	-1.73	0.00	-2.28	0.00
2061014	-1.20	-1.32	-0.30	-1.09	-1.22	-1.09	-0.09	-1.44	-1.05	0.00
2989680	-1.35	-2.12	-1.72	-2.04	-1.80	-2.13	-0.80	-3.22		-1.66
3096030							-0.78	-1.04	-1.05	
1870876			-1.58				-1.05	-2.14	-1.87	
2132203	-1.63	-1.47	-0.87	-1.28	-1.82	-1.63	-0.91	-2.55		-1.20
1522716	-1.28	-1.84	-1.15	-1.20	-0.95	-0.75	-1.03	-1.47		0.00
2189062	-1.21	-1.12	-1.31	-1.26	-0.38	-1.03	-0.63	-1.58		-1.17
1962235	-1.68	-2.12	-0.91	-1.45	-1.73	-2.66	-0.68	-1.71		0.00

Table 1

1933073	-2.83	-2.96	-1.56	-2.56	-2.69	-1.69	-2.03	-1.77	-3.32	-0.73
1226538	-2.85	-2.96	-1.41	-2.89	-2.59	-2.32	-1.69	-1.95	-3.11	-1.68
1226538	-3.41	-3.50	-1.65	-3.28	-3.16	-2.70	-1.88	-2.57		-1.20
1498363	-3.12	-3.64	-0.54	-0.56	-3.06	-2.73	1.10	-2.18	1.29	-2.86
1582976			-2.31				-1.30	-1.69	-2.79	
1820882			-0.70				-1.15	-1.96	-0.82	
1845590	-3.87	-3.12	-2.00	-3.98	-3.82	-2.74	-2.83	-1.94		0.00
1845915	-3.29	-2.71	-1.66	-2.85	-2.57	-2.67	-1.78	-2.15	-2.07	0.00
1963854	-1.49	-1.35	-0.31	-1.95	-1.58	-1.35	-0.94	-2.07		-0.52
2055371			-1.03				-0.76	-1.41	-1.06	
2964448	-1.41	-1.61	-0.84	-1.92	-1.65	-1.87	-2.29	-1.04		0.00
3222815			0.31				-1.42	-1.80	-0.89	
3732960							-2.02	-2.63	-1.63	
4175376			-0.37				-0.91	-2.49	-1.95	
4872725							-1.34	-1.15	-0.34	
5266376							-1.31	-2.23	-1.85	
607958	-1.10	-1.88	-0.81	-1.40	-1.54	-1.17	-1.11	-0.98	-1.30	-1.43
2101663	-4.85	-4.72	-2.19	-4.48	-4.71	-4.71	-3.43	-2.75		-3.28
3681722	-1.51	-1.99	-0.83	-1.44	-1.15	-1.65	-1.10	-2.00	-0.45	-0.84
3229449			0.18				-1.59	-1.74	-0.98	
3090127			-1.43				-0.32	-1.26	-0.93	

Table 2

Clone ID	3754 polyp	3755 polyp	3583 polyp	3311 tumor	3756 tumor	3757 tumor	3649 tumor	3647 tumor	t-test polyp vs tumor
1633719	-1.98	-1.98	-2.32	-3.47	-3.10	-2.99	-2.19	-2.89	0.0138
2785701	0.56	0.04	-0.27	2.23	3.65	0.83	1.03	0.90	0.0392
3732536	0.34	-0.06	0.03	3.46	3.42	0.50	1.24	0.91	0.0464
2767646	-2.17	-2.84	-1.92	-3.19	-3.51	-2.94	-2.94	-4.32	0.0349
1628788	-0.67	-2.16	-0.28	-4.78	-3.55	-2.37	-2.17	-3.48	0.0329
1921393	-0.79	-0.53	-0.52	-1.60	-1.29	-2.02	-1.76	-2.18	0.0008
1846463	-1.78	-1.67	-2.05	-1.65	-1.01	-1.18	-1.10	-0.95	0.0086
2532486	0.07	-0.29	0.28	-0.51	-1.48	-0.66	-0.31	-0.41	0.0422
2042056	-0.04	-0.21	0.43	0.12	0.89	0.87	1.31	1.34	0.0283
2595754	-0.58	-0.73	-0.28	0.93	0.55	1.61	0.93	-0.52	0.0215
2591494	-0.51	-0.83	-0.04	-1.96	-2.42	-2.27	-2.38	-1.32	0.0034
2845102	0.07	-0.61	-0.32	0.83	1.33	-0.07	1.41	0.32	0.0235
4107476	-2.19	-1.87	-2.31	-3.11	-3.24	-3.33	-2.32	-2.93	0.0082
1861456	0.31	-0.03	-0.03	0.38	1.37	0.40	0.77	0.59	0.0278
3679667	0.53	0.19	0.22	0.90	1.39	0.39	0.72	0.90	0.0316
461001	-0.78	-0.58	-0.83	-2.31	-1.61	-1.94	-2.19	-2.58	0.0004

Table 3

SEQ ID NO:	Template ID	Clone ID	Start	Stop
1	184081.24	27775	188	424
2	995839.2	279898	41	352
3	3200830CB1	417817	260	581
5	006512.8	417817	1	457
6	3819039CB1	444676	997	2332
8	330923.5	496003	1363	3659
8	330923.5	1403294	2948	3595
9	234630.57	560466	1372	2397
10	611514CB1	605219	1131	1679
12	2072479CB1	607958	88	566
14	410911.5	609115	1616	3686
15	1285632CB1	698665	1377	4119
17	474322.36	699410	386	735
18	3040213CB1	957523	1383	1818
18	3040213CB1	3206210	6	1816
20	1282225CB1	990375	61	524
22	991163CB1	991163	861	1702
22	991163CB1	1809178	933	1346
24	3220207CB1	1226538	67	616
26	203309.2	1286257	2071	2124
27	998971.1	1417020	5	512
28	333076.1	1424624	2647	2951
28	333076.1	1772981	3371	3664
29	989613CB1	1431273	864	2869
31	2921920CB1	1498363	520	1103
33	997080.1	1500810	882	2910
34	5517972CB1	1501080	1186	2519
36	1397781.7	1522716	1328	1966
37	236655.3	1554043	1	351
38	345275.4	1560987	2023	2317
39	124600CB1	1578941	38	611
41	978410.7	1582976	297	718
42	1401116.1	1604425	1	830
43	2921009CB1	1626523	1461	2096
45	255115.4	1630650	1360	1852
46	1213592.1	1632863	318	686
47	1376382CB1	1695477	969	1499
49	2264641CB1	1701847	1088	1647
51	237547CB1	1734393	771	1305
53	2771481CB1	1738354	2208	3146
53	2771481CB1	2767646	1	3151
55	1400916.1	1747339	1	846
56	253986.11	1761086	873	1379
57	253986.17	1761086	230	743
58	2680109CB1	1800114	1993	2783
60	1800311CB1	1800311	74	636
60	1800311CB1	1846428	136	602
62	1804734CB1	1804503	607	1274
64	3231154CB1	1805613	421	797
66	210095.11	1806071	2788	3437
67	2719813CB1	1806417	220	1116
69	2886583CB1	1807085	329	922

Table 3

71	025685.3	1820882	159	623
72	1808144CB1	1841735	2373	2829
72	1808144CB1	1842009	1461	2816
74	201356.1	1845590	1439	3456
75	978178.7	1845915	1022	1511
76	237563.31	1870876	1456	2075
77	1100412.5	1903267	2382	2833
78	1100412.4	1903267	2509	2860
79	2101663CB1	1932453	688	1205
81	611082CB1	1933073	177	1285
83	255002.4	1945315	1	355
84	1092257.2	1962235	2348	2796
84	1092257.2	3440567	2334	2777
85	1102315.3	1963854	1746	2059
86	1543330CB1	1981145	1138	1664
88	232992.1	1986901	2365	3110
89	1281620CB1	1988239	129	1192
91	343502.10	1998428	617	1062
92	1635966CB1	2046165	492	846
94	2054053CB1	2054053	332	869
96	096954.5	2055371	1585	3052
97	1422432CB1	2060823	397	842
99	409895.2	2060823	1224	1458
100	4874364CB1	2061014	60	611
102	239568.4	2101663	6	491
103	255041.1	2129558	1	494
104	2555628CB1	2132203	744	2019
106	255803.1	2150288	1	411
107	900341CB1	2189062	1102	1647
109	273879CB1	2215563	596	1817
111	141804.1	2344730	239	694
112	2512879CB1	2512879	130	1418
114	2685676CB1	2513883	465	882
116	2742913CB1	2516950	75	1693
118	429183.1	2697455	1	363
119	2757583CB1	2757583	61	431
121	1344279CB1	2771046	1591	3649
123	1329472.2	2771895	1	337
124	474457.35	2900277	94	684
125	474457.45	2900277	249	596
126	898779CB1	2921194	169	1098
128	1843408CB1	2921991	191	626
130	351241.1	2955163	312	757
131	413348.40	2959255	1704	2129
132	983354.2	2964448	4140	4432
133	235845.20	2989680	165	1424
134	266360.18	3031144	197	645
135	266360.15	3031144	371	657
136	1310030.1	3054669	10	180
137	2804864CB1	3075739	14	793
139	349615.7	3090127	616	1031
140	632664CB1	3096030	531	1076
142	995929.22	3119893	72	455

Table 3

143	995929.27	3119893	663	1053
144	1397029.1	3222815	19	1212
145	403560.1	3229449	129	810
146	1329606.3	3395923	306	1480
147	1092257.12	3440567	1	532
148	474322.38	3552835	998	1797
149	255002.3	3560862	1	334
150	1330137.1	3681722	1	237
151	3699582CB1	3699582	1	494
153	344537.24	3699582	2049	2339
154	016124.2	3732960	31	391
155	104423.33	3878420	2339	2649
156	406977.2	3888832	573	1739
157	3355973CB1	3977425	25	1734
159	406457.3	4002745	4314	4773
160	2190217CB1	4151758	168	1116
162	029061.1	4175376	176	1158
163	1262593.2	4289557	1156	1510
164	1094812.1	4540779	29	679
165	2434655CB1	4796795	34	1027
167	206344.1	4872725	270	937
168	1075717.7	5038171	977	1374
169	1075717.1	5038171	556	1147
170	372647.1	5266376	81	792
171	148512.1	5392053	581	857
172	2023119CB1	1846463	2355	3242
174	1973832CB1	3732536	426	1678
176	241888.54	2785701	180	1759
177	1736965CB1	461001	2	765
179	412065.17	2591494	763	1681
180	988660.32	1921393	284	703
181	1434821CB1	2595754	432	846
183	464689.64	2845102	1659	2266
184	464689.59	2845102	413	891
185	1384719.3	1861456	3177	3584
185	1384719.3	3679667	3030	3522
186	407463.1	2532486	4549	5048
187	522433CB1	2042056	854	1234
189	480489.5	4107476	1	598
190	480489.2	4107476	212	586
191	1737775CB1	1628788	2293	2794
193	088078CB1	1633719	1021	1682

Table 4

SEQ ID NO:	Nucleotide Template ID	SEQ ID NO:	Protein Template ID
3	3200830CB1	4	3200830CD1
6	3819039CB1	7	3819039CD1
10	611514CB1	11	611514CD1
12	2072479CB1	13	2072479CD1
15	1285632CB1	16	1285632CD1
18	3040213CB1	19	3040213CD1
20	1282225CB1	21	1282225CD1
22	991163CB1	23	991163CD1
24	3220207CB1	25	3220207CD1
29	989613CB1	30	989613CD1
31	2921920CB1	32	2921920CD1
34	5517972CB1	35	5517972CD1
39	124600CB1	40	124600CD1
43	2921009CB1	44	2921009CD1
47	1376382CB1	48	1376382CD1
49	2264641CB1	50	2264641CD1
51	237547CB1	52	237547CD1
53	2771481CB1	54	2771481CD1
58	2680109CB1	59	2680109CD1
60	1800311CB1	61	1800311CD1
62	1804734CB1	63	1804734CD1
64	3231154CB1	65	3231154CD1
67	2719813CB1	68	2719813CD1
69	2886583CB1	70	2886583CD1
72	1808144CB1	73	1808144CD1
79	2101663CB1	80	2101663CD1
81	611082CB1	82	611082CD1
86	1543330CB1	87	1543330CD1
89	1281620CB1	90	1281620CD1
92	1635966CB1	93	1635966CD1
94	2054053CB1	95	2054053CD1
97	1422432CB1	98	1422432CD1
100	4874364CB1	101	4874364CD1
104	2555628CB1	105	2555628CD1
107	900341CB1	108	900341CD1
109	273879CB1	110	273879CD1
112	2512879CB1	113	2512879CD1
114	2685676CB1	115	2685676CD1
116	2742913CB1	117	2742913CD1
119	2757583CB1	120	2757583CD1
121	1344279CB1	122	1344279CD1
126	898779CB1	127	898779CD1
128	1843408CB1	129	1843408CD1
137	2804864CB1	138	2804864CD1
140	632664CB1	141	632664CD1
151	3699582CB1	152	3699582CD1
157	3355973CB1	158	3355973CD1
160	2190217CB1	161	2190217CD1
165	2434655CB1	166	2434655CD1
172	2023119CB1	173	2023119CD1
174	1973832CB1	175	1973832CD1

Table 4

177	1736965CB1	178	1736965CD1
181	1434821CB1	182	1434821CD1
187	522433CB1	188	522433CD1
191	1737775CB1	192	1737775CD1
193	088078CB1	194	088078CD1

Table 5

SEQ ID NO	Template ID	GI Number	E-Value	GenBank Annotation
1	184081.24	g306743	0	Human ferritin heavy chain mRNA, complete cds.
2	995839.2	g37120	0	Human mRNA for metallothionein from cadmium-treated cells.
3	3200830CB1	g285948	0	Human mRNA for KIAA0106 gene, completc cds.
4	3200830CD1	g285948	0	Human mRNA for KIAA0106 gene, complete cds.
5	6512.8	g285948	0	Human mRNA for KIAA0106 gene, complete cds.
6	3819039CB1	g5231142	0	Human serine/threonine protein kinase sgk mRNA, complete cds.
7	3819039CD1	g5231142	0	Human serine/threonine protein kinase sgk mRNA, complete cds.
8	330923.5	g30507	0	Human DSC2 mRNA for desmocollins type 2a and 2b.
9	234630.57	g31190	0	Human mRNA for epican.
10	611514CB1	g1374791	0	Human selenium-binding protein (hSBP) mRNA, complete cds.
11	611514CD1	g1374791	0	Human selenium-binding protein (hSBP) mRNA, complete cds.
12	2072479CB1		0	Incyte Unique
13	2072479CD1		0	Incyte Unique
14	410911.5	g405229	0	Human I-plastin mRNA, complete cds.
15	1285632CB1	g903681	0	Human bumetanide-sensitive Na-K-Cl cotransporter (NKCC1) mRNA, complete cds.
16	1285632CD1	g903681	0	Human bumetanide-sensitive Na-K-Cl cotransporter (NKCC1) mRNA, complete cds.
17	474322.36	g190888	0	Human RASF-A PLA2 mRNA, complete cds.
18	3040213CB1	g28937	0	Human mRNA for mitochondrial ATP synthase (F1-ATPase) alpha subunit.
19	3040213CD1	g28937	0	Human mRNA for mitochondrial ATP synthase (F1-ATPase) alpha subunit.
20	1282225CB1	g182355	0	Human liver fatty acid binding protein (FABP) mRNA, complete cds.
21	1282225CD1	g182355	0	Human liver fatty acid binding protein (FABP) mRNA, complete cds.
22	991163CB1	g2507612	0	Human serine protease mRNA, complete cds.
23	991163CD1	g2507612	0	Human serine protease mRNA, complete cds.
24	3220207CB1	g187241	3.00E-54	Human lymphocyte surface protein exons 1-5, complete cds.
25	3220207CD1	g187241	3.00E-54	Human lymphocyte surface protein exons 1-5, complete cds.
26	203309.2	g406853	0	Human mRNA for cytokeratin 20.
27	998971.1	g5931520	0	Human genomic DNA, chromosome 22q11.2, Cat Eye Syndrome region, clone:c60D12.
28	333076.1	g549987	0	Human sulfate transporter (DTD) mRNA, complete cds.

Table 5

29	989613CB1	g535474	0	Human N-benzoyl-L-tyrosyl-p-amino-benzoic acid hydrolase alpha subunit (PPH alpha) mRNA, complete cds.
30	989613CD1	g535474	0	Human N-benzoyl-L-tyrosyl-p-amino-benzoic acid hydrolase alpha subunit (PPH alpha) mRNA, complete cds.
31	2921920CB1	g7019845	0	Human cDNA FLJ20022 fis, clone ADSE01331.
32	2921920CD1	g7019845	0	Human cDNA FLJ20022 fis, clone ADSE01331.
33	997080.1	g4753765	0	Human mRNA for UDP-glucuronosyltransferase.
34	5517972CB1	g4185795	0	Human placenta-specific ATP-binding cassette transporter (ABCP) mRNA, complete cds.
35	5517972CD1	g4185795	0	Human placenta-specific ATP-binding cassette transporter (ABCP) mRNA, complete cds.
36	1397781.7	g37851	0	Human vimentin gene.
37	236655.3	g33140	2.00E-09	C-terminal part of Human Ig kappa gene coding for amino acids 109 to 214.
38	345275.4	g1000711	0	Human BENE mRNA, partial cds.
39	124600CB1	g1203983	0	Human NAD+-dependent 15 hydroxyprostaglandin dehydrogenase (PGDH) mRNA, complete cds.
40	124600CD1	g1203983	0	Human NAD+-dependent 15 hydroxyprostaglandin dehydrogenase (PGDH) mRNA, complete cds.
41	978410.7		0	Incyte Unique
42	1401116.1	g33737	0	Human rearranged Ig lambda light chain mRNA.
43	2921009CB1	g4204683	0	Human beta-1,6-N-acetylglucosaminyltransferase mRNA, complete cds.
44	2921009CD1	g4204683	0	Human beta-1,6-N-acetylglucosaminyltransferase mRNA, complete cds.
45	255115.4	g3287472	0	Human C19steroid specific UDP-glucuronosyltransferase mRNA, complete cds.
46	1213592.1	g33394	0	Human mRNA for Ig lambda-chain.
47	1376382CB1	g7020103	0	Human cDNA FLJ20177 fis, clone COL09966, highly similar to Y08136 H.
48	1376382CD1	g7020103	0	Human cDNA FLJ20177 fis, clone COL09966, highly similar to Y08136 H.
49	2264641CB1	g2447035	0	Human mRNA for APS, complete cds.
50	2264641CD1	g2447035	0	Human mRNA for APS, complete cds.
51	237547CB1	g406853	0	Human mRNA for cytokeratin 20.
52	237547CD1	g406853	0	Human mRNA for cytokeratin 20.
53	2771481CB1	g7019922	0	Human cDNA FLJ20065 fis, clone COL01613, highly similar to ECLC_BOVIN EPITHELIAL CHLORIDE CHANNEL PROTEIN.

Table 5

54	2771481CD1	g7019922	0	Human cDNA FLJ20065 fis, clone COL01613, highly similar to ECLC_BOVIN EPITHELIAL CHLORIDE CHANNEL PROTEIN.
55	1400916.1	g2765426	0	Human mRNA for Ig lambda light chain.
56	253986.11	g180589	0	Human mitochondrial creatine kinase (CKMT) gene, complete cds.
57	253986.17	g180589	0	Human mitochondrial creatine kinase (CKMT) gene, complete cds.
58	2680109CB1	g514365	0	Human poly-Ig receptor transmembrane secretory component mRNA, 3' end
59	2680109CD1	g514365	0	Human poly-Ig receptor transmembrane secretory component mRNA, 3' end
60	1800311CB1	g183414	0	Human guanylin mRNA, complete cds.
61	1800311CD1	g183414	0	Human guanylin mRNA, complete cds.
62	1804734CB1	g6606075	0	Human aquaporin 8 (AQP8) mRNA, complete cds.
63	1804734CD1	g6606075	0	Human aquaporin 8 (AQP8) mRNA, complete cds.
64	3231154CB1	g1814276	0	Human A33 antigen precursor mRNA, complete cds.
65	3231154CD1	g1814276	0	Human A33 antigen precursor mRNA, complete cds.
66	210095.11	g37197	0	Human mRNA for transmembrane carcinoembryonic antigen BGPa (formerly TM1-CEA).
67	2719813CB1	g179790	0	Human carbonic anhydrase IV mRNA, complete cds.
68	2719813CD1	g179790	0	Human carbonic anhydrase IV mRNA, complete cds.
69	2886583CB1	g3893156	0	Human mRNA expressed in thyroid gland.
70	2886583CD1	g3893156	0	Human mRNA expressed in thyroid gland.
71	25685.3		0	Incyte Unique
72	1808144CB1	g291963	0	Human colon mucosa-associated (DRA) mRNA, complete cds.
73	1808144CD1	g291963	0	Human colon mucosa-associated (DRA) mRNA, complete cds.
74	201356.1		0	Incyte Unique
75	978178.7	g200497	6.00E-23	protein kinase inhibitor
76	237563.31	g881393	0	Human uridine diphosphoglucose pyrophosphorylase mRNA, complete cds.
77	1100412.5	g3860076	0	Human GW112 protein (GW112) mRNA, complete cds.
78	1100412.4	g7020929	0	Human cDNA FLJ20676 fis, clone KAIA4294, highly similar to AF097021 Human GW112 protein.
79	2101663CB1	g179792	0	Human carbonic anhydrase I (CAI) mRNA, complete cds.
80	2101663CD1	g179792	0	Human carbonic anhydrase I (CAI) mRNA, complete cds.
81	611082CB1	g7020167	0	Human cDNA FLJ20217 fis, clone COLF3334.
82	611082CD1	g7020167	0	Human cDNA FLJ20217 fis, clone COLF3334.
83	255002.4	g4753765	0	Human mRNA for UDP-glucuronosyltransferase.

Table 5

84	1092257.2	g5353532	0	Human zinc finger transcription factor GKLF mRNA, complete cds.
85	1102315.3	g7259292	0	contains transmembrane (TM) region
86	1543330CB1	g28871	0	Human mRNA for argininosuccinate synthetase.
87	1543330CD1	g28871	0	Human mRNA for argininosuccinate synthetase.
88	232992.1	g8247253	0	Human mRNA for TRAF and TNF receptor associated protein (ttrap gene).
89	1281620CB1	g1877030	0	Human mRNA for rhodanese, complete cds.
90	1281620CD1	g1877030	0	Human mRNA for rhodanese, complete cds.
91	343502.1	g3779225	0	Human secreted cement gland protein XAG-2 homolog (hAG-2/R) mRNA, complete cds.
92	1635966CB1	g6318543	0	Human retinal short-chain dehydrogenase/reductase retSDR2 mRNA, complete cds.
93	1635966CD1	g6318543	0	Human retinal short-chain dehydrogenase/reductase retSDR2 mRNA, complete cds.
94	2054053CB1	g181122	0	Human cleavage signal 1 protein mRNA, complete cds.
95	2054053CD1	g181122	0	Human cleavage signal 1 protein mRNA, complete cds.
96	96954.5	g2804592	0	F21856_2
97	1422432CB1	g36177	0	Human mRNA for calcium-binding protein S100P.
98	1422432CD1	g36177	0	Human mRNA for calcium-binding protein S100P.
99	409895.2	g36177	0	Human mRNA for calcium-binding protein S100P.
100	4874364CB1	g2826145	0	Human mRNA for ST1B2, complete cds.
101	4874364CD1	g2826145	0	Human mRNA for ST1B2, complete cds.
102	239568.4	g407977	0	Macaque carbonic anhydrase I mRNA, complete cds.
103	255041.1	g3287472	1.00E-36	Human C19steroid specific UDP-glucuronosyltransferase mRNA, complete cds.
104	2555628CB1	g881393	0	Human uridine diphosphoglucose pyrophosphorylase mRNA, complete cds.
105	2555628CD1	g881393	0	Human uridine diphosphoglucose pyrophosphorylase mRNA, complete cds.
106	255803.1	g6599184	0	Human mRNA; cDNA DKFZp434C107 (from clone DKFZp434C107).
107	900341CB1	g5114259	0	Human voltage-dependent anion channel isoform 2 (VDAC2) gene, exon 10 and complete cds.
108	900341CD1	g5114259	0	Human voltage-dependent anion channel isoform 2 (VDAC2) gene, exon 10 and complete cds.
109	273879CB1	g2385453	0	Human mRNA for galectin-4, complete cds.
110	273879CD1	g2385453	0	Human mRNA for galectin-4, complete cds.

Table 5

111	141804.1	g2529737	2.00E-67	ER1
112	2512879CB1	g178089	0	Human class I alcohol dehydrogenase (ADH1) alpha subunit mRNA, completc cds.
113	2512879CD1	g178089	0	Human class I alcohol dehydrogenase (ADH1) alpha subunit mRNA, complete cds.
114	2685676CB1	g517350	0	Human MT1X gene for metallothionein 1X.
115	2685676CD1	g517350	0	Human MT1X gene for metallothionein 1X.
116	2742913CB1	g179771	0	Human carbonic anhydrase II mRNA, complete cds.
117	2742913CD1	g179771	0	Human carbonic anhydrase II mRNA, complete cds.
118	429183.1	g1673574	0	Human cytokeratin 8 mRNA, complete cds.
119	2757583CB1	g187542	0	Human metallothionein (MT)I-F gene, complete cds.
120	2757583CD1	g187542	0	Human metallothionein (MT)I-F gene, complete cds.
121	1344279CB1	g178535	0	Human aminopeptidase N/CD13 mRNA encoding aminopeptidase N, complete cds.
122	1344279CD1	g178535	0	Human aminopeptidase N/CD13 mRNA encoding aminopeptidase N, complete cds.
123	1329472.2	g808003	0	Human Ig light chain variable region (lambda-IIIb subgroup) from IgM rheumatoid factor.
124	474457.35	g35183	0	Human p27 mRNA.
125	474457.45	g35183	0	Human p27 mRNA.
126	898779CB1	g179530	0	Human IgE-binding protein (epsilon-BP) mRNA, complete cds.
127	898779CD1	g179530	0	Human IgE-binding protein (epsilon-BP) mRNA, complete cds.
128	1843408CB1	g189944	0	Human (clone lamda-hPEC-3) phosphoenolpyruvate carboxykinase (PCK1) mRNA, complete cds.
129	1843408CD1	g189944	0	Human (clone lamda-hPEC-3) phosphoenolpyruvate carboxykinase (PCK1) mRNA, complete cds.
130	351241.1	g2935483	4.00E-56	Human minisatellite ceb1 repeat region.
131	413348.4	g36425	0	Human mRNA for selenoprotein P.
132	983354.2	g7331874	2.00E-14	contains similarity to TR:O13786
133	235845.2	g3152700	0	Human tetraspan NET-1 mRNA, complete cds.
134	266360.18	g338481	0	Human sorcin CP-22 mRNA, complete cds.
135	266360.15	g459835	0	Human sorcin (SRI) mRNA, complete cds.
136	1310030.1	g34204	0	Human rearranged Humigla1L1 gene encoding IgG light chain.

Table 5

137	2804864CB1	g338481	0	Human sorcin CP-22 mRNA, complete cds.
138	2804864CD1	g338481	0	Human sorcin CP-22 mRNA, complete cds.
139	349615.7	g7291735	6.00E-46	CG3209 gene product
140	632664CB1	g7658294	0	Human transmembrane protein BRI mRNA, complete cds.
141	632664CD1	g7658294	0	Human transmembrane protein BRI mRNA, complete cds.
142	995929.22	g4406655	0	Human clone 25077 mRNA sequence, complete cds.
143	995929.27	g5531840	0	Human PTD010 mRNA, complete cds.
144	1397029.1	g7020022	0	Human cDNA FLJ20127 fis, clone COL06176.
145	403560.1	g7020022	0	Human cDNA FLJ20127 fis, clone COL06176.
146	1329606.3	g33737	0	Human rearranged Ig lambda light chain mRNA.
147	1092257.12	g2897953	0	Human Kruppel-like zinc finger protein (EZF) mRNA, complete cds.
148	474322.38	g190885	0	Human RASF-A PLA2 gene encoding synovial phospholipase, exons 2 through 5.
149	255002.3	g4753765	0	Human mRNA for UDP-glucuronosyltransferase.
150	1330137.1	g177064	3.00E-79	Gorilla gorilla beta-2-microglobulin mRNA (GOGOB2M).
151	3699582CB1	g184472	0	Human bilirubin UDP-glucuronosyltransferase isozyme 1 mRNA, complete cds.
152	3699582CD1	g184472	0	Human bilirubin UDP-glucuronosyltransferase isozyme 1 mRNA, complete cds.
153	344537.24	g184474	0	Human bilirubin UDP-glucuronosyltransferase isozyme 2 mRNA, complete cds.
154	16124.2		0	Incyte Unique
155	104423.33	g5441359	0	Human mRNA activated in tumor suppression, clone TSAP19.
156	406977.2	g219917	0	Human mRNA for acetoacetyl-coenzyme A thiolase (EC 2.3.1.9).
157	3355973CB1	g400415	0	Human KRT8 mRNA for keratin 8.
158	3355973CD1	g400415	0	Human KRT8 mRNA for keratin 8.
159	406457.3	g903681	0	Human bumetanide-sensitive Na-K-Cl cotransporter (NKCC1) mRNA, complete cds.
160	2190217CB1	g34755	0	Human mRNA for myosin regulatory light chain.
161	2190217CD1	g34755	0	Human mRNA for myosin regulatory light chain.
162	29061.1		0	Incyte Unique
163	1262593.2	g4914599	0	Human mRNA; cDNA DKFZp564A126 (from clone DKFZp564A126); partial cds.
164	1094812.1	g179478	0	Human biliary glycoprotein (BGP) gene, partial cds.
165	2434655CB1	g4753765	0	Human mRNA for UDP-glucuronosyltransferase.
166	2434655CD1	g4753765	0	Human mRNA for UDP-glucuronosyltransferase.

Table 5

167	206344.1		0	Incyte Unique
168	1075717.7	g31777	0	Human gene encoding preproglucagon.
169	1075717.1	g183269	0	Human glucagon mRNA, complete cds.
170	372647.1		0	Incyte Unique
171	148512.1	g7717317	0	Human chromosome 21 segment HS21C052.
172	2023119CB1	g306769	0	Human leukemia virus receptor 1 (GLVR1) mRNA, complete cds.
173	2023119CD1	g306769	0	Human leukemia virus receptor 1 (GLVR1) mRNA, complete cds.
174	1973832CB1	g179579	0	Human beta-thromboglobulin-like protein mRNA, complete cds.
175	1973832CD1	g179579	0	Human beta-thromboglobulin-like protein mRNA, complete cds.
176	241888.54	g179579	0	Human beta-thromboglobulin-like protein mRNA, complete cds.
177	1736965CB1		0	Incyte Unique
178	1736965CD1		0	Incyte Unique
179	412065.17	g1374791	0	Human selenium-binding protein (hSBP) mRNA, complete cds.
180	988660.32	g500848	0	Human CD24 signal transducer mRNA, complete cds and 3' region
181	1434821CB1	g35706	0	Human pS2 mRNA induced by estrogen from Human breast cancer cell line MCF-7.
182	1434821CD1	g35706	0	Human pS2 mRNA induced by estrogen from Human breast cancer cell line MCF-7.
183	464689.64	g7415720	0	Human Scd mRNA for stearoyl-CoA desaturase, complete cds.
184	464689.59	g4808600	0	Human stearoyl-CoA desaturase (SCD) mRNA, complete cds.
185	1384719.3	g3719220	0	Human vascular endothelial growth factor mRNA, complete cds.
186	407463.1	g3882150	0	Human mRNA for KIAA0715 protein, partial cds.
187	522433CB1	g2674084	0	Human macrophage inhibitory cytokine-1 (MIC-1) mRNA, complete cds.
188	522433CD1	g2674084	0	Human macrophage inhibitory cytokine-1 (MIC-1) mRNA, complete cds.
189	480489.5	g3360272	0	Human UDP-glucuronosyltransferase 2B mRNA, complete cds.
190	480489.2	g3360272	0	Human UDP-glucuronosyltransferase 2B mRNA, complete cds.
191	1737775CB1	g4009457	0	Human calcium-dependent chloride channel-1 (hCLCA1) mRNA, complete cds.
192	1737775CD1	g4009457	0	Human calcium-dependent chloride channel-1 (hCLCA1) mRNA, complete cds.
193	088078CB1	g340079	0	Human 3,4-catechol estrogen UDP-glucuronosyltransferase mRNA, complete cds.
194	088078CD1	g340079	0	Human 3,4-catechol estrogen UDP-glucuronosyltransferase mRNA, complete cds.

Table 6

SEQ ID NO	Template ID	Start	Stop	Frame	Pfam Hit	Pfam Description	E-Value
2	995839.2	99	248	forward 3	metalthio	Metallothionein	6.80E-08
4	3200830CD1	7	162		AhpC-TSA	AhpC/TSA family	6.70E-71
7	3819039CD1	98	355		pkinase	Eukaryotic protein kinase domain	1.10E-85
7	3819039CD1	356	430		pkinase_C	Protein kinase C terminal domain	5.60E-16
8	330923.5	38	349	forward 2	cadherin	Cadherin domain	2.30E-27
9	234630.57	253	519	forward 1	Xlink	Extracellular link domain	3.00E-68
14	410911.5	539	889	forward 2	CH	Calponin homology (CH) domain	6.90E-39
14	410911.5	338	424	forward 2	efhand	EF hand	1.50E-07
17	474322.36	382	576	forward 1	phoslip	Phospholipase A2	8.90E-27
17	474322.36	287	343	forward 2	phoslip	Phospholipase A2	3.70E-06
19	3040213CD1	417	551		ATP-synt_A-c	ATP synthase Alpha chain, C terminal	4.30E-106
19	3040213CD1	70	416		ATP-synt_ab	ATP synthase alpha/beta family	9.90E-200
21	1282225CD1	2	127		lipocalin	Lipocalin / cytosolic fatty-acid binding protein family	6.90E-25
23	991163CD1	148	376		trypsin	Trypsin	1.20E-83
25	3220207CD1	47	170		Jacalin	Jacalin-like lectin domain	1.20E-21
26	203309.2	255	1190	forward 3	filament	Intermediate filament proteins	2.40E-155
28	333076.1	1883	2299	forward 2	STAS	STAS domain	2.40E-15
28	333076.1	973	1782	forward 1	Sulfate_transp	Sulfate transporter family	2.00E-06
30	989613CD1	73	261		Astacin	Astacin (Peptidase family M12A)	3.80E-101
30	989613CD1	674	709		EGF	EGF-like domain	1.40E-10
30	989613CD1	269	433		MAM	MAM domain.	3.80E-58
30	989613CD1	437	595		MATH	MATH domain	1.90E-26
32	2921920CD1	49	94		fibrinogen_C	Fibrinogen beta and gamma chains, C-terminal globular domain	2.10E-04
33	997080.1	99	1604	forward 3	UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	1.50E-285
35	5517972CD1	77	262		ABC_tran	ABC transporter	9.80E-30
36	1397781.7	582	1508	forward 3	filament	Intermediate filament proteins	1.20E-174
40	124600CD1	6	189		adh_short	short chain dehydrogenase	2.60E-72
42	1401116.1	114	338	forward 3	ig	Immunoglobulin domain	1.90E-11
45	255115.4	121	1023	forward 1	UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	1.70E-177
45	255115.4	977	1573	forward 2	UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	2.60E-158
46	1213592.1	187	357	forward 1	ig	Immunoglobulin domain	9.90E-06

Table 6

50	2264641CD1	194	306		PH	PH domain	2.10E-12
50	2264641CD1	417	466		SH2	Src homology domain 2	4.20E-16
52	237547CD1	69	380		filament	Intermediate filament proteins	2.40E-155
55	1400916.1	120	344	forward 3	ig	Immunoglobulin domain	1.90E-09
56	253986.11	448	1617	forward 1	ATP-gua_Ptrans	ATP:guanido phosphotransferase	2.40E-265
57	253986.17	1	642	forward 1	ATP-gua_Ptrans	ATP:guanido phosphotransferase	5.20E-156
59	2680109CD1	33	112		ig	Immunoglobulin domain	1.30E-08
61	1800311CD1	1	115		Guanylin	Guanylin precursor	6.00E-73
63	1804734CD1	35	246		MIP	Major intrinsic protein	4.40E-58
65	3231154CD1	36	119		ig	Immunoglobulin domain	2.60E-06
66	210095.11	1114	1287	forward 1	ig	Immunoglobulin domain	7.40E-13
68	2719813CD1	23	285		carb_anhydrase	Eukaryotic-type carbonic anhydrase	4.20E-153
70	2886583CD1	30	195		lactamase_B	Metallo-beta-lactamase superfamily	1.30E-40
73	1808144CD1	526	716		STAS	STAS domain	7.90E-28
73	1808144CD1	193	503		Sulfate_transp	Sulfate transporter family	1.00E-123
76	237563.31	391	1671	forward 1	UDPGP	UTP--glucose-1-phosphate uridylyltransferase	1.10E-255
77	1100412.5	896	1486	forward 2	OLF	Olfactomedin-like domain	1.10E-09
77	1100412.5	736	1506	forward 1	OLF	Olfactomedin-like domain	1.30E-08
78	1100412.4	818	1594	forward 2	OLF	Olfactomedin-like domain	1.80E-89
80	2101663CD1	6	261		carb_anhydrase	Eukaryotic-type carbonic anhydrase	2.20E-190
83	255002.4	150	1340	forward 3	UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	3.50E-210
83	255002.4	1270	1590	forward 1	UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	6.90E-76
84	1092257.2	1659	1733	forward 3	zf-C2H2	Zinc finger, C2H2 type	4.60E-06
87	1543330CD1	8	405		Arginosuc_synth	Arginosuccinate synthase	4.80E-277
90	1281620CD1	164	282		Rhodanese	Rhodanese-like domain	1.40E-31
93	1635966CD1	37	224		adh_short	short chain dehydrogenase	2.20E-48
98	1422432CD1	53	81		efhand	EF hand	1.80E-04
98	1422432CD1	4	47		S_100	S-100/ICaBP type calcium binding domain	2.70E-21
99	409895.2	1198	1284	forward 1	efhand	EF hand	1.80E-04
101	4874364CD1	16	284		Sulfotransfer	Sulfotransferase proteins	1.60E-176
102	239568.4	97	504	forward 1	carb_anhydrase	Eukaryotic-type carbonic anhydrase	3.90E-90
103	255041.1	6	113	forward 3	UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	6.20E-07
105	2555628CD1	39	465		UDPGP	UTP--glucose-1-phosphate uridylyltransferase	1.10E-255

Table 6

106	255803.1	159	227	forward 3	filament	Intermediate filament proteins	5.70E-06
106	255803.1	2	130	forward 2	filament	Intermediate filament proteins	1.90E-05
108	900341CD1	13	294		Euk_porin	Eukaryotic porin	5.00E-182
110	273879CD1	212	315		Gal-bind_lectin	Vertebrate galactoside-binding lectins	2.30E-46
111	141804.1	520	831	forward 1	ELM2	ELM2 domain	8.40E-17
113	2512879CD1	21	375		adh_zinc	Zinc-binding dehydrogenases	7.90E-141
115	2685676CD1	1	61		metalthio	Metallothionein	8.00E-24
117	2742913CD1	5	259		carb_anhydrase	Eukaryotic-type carbonic anhydrase	3.90E-193
120	2757583CD1	1	61		metalthio	Metallothionein	1.20E-24
122	1344279CD1	76	480		Peptidase_M1	Peptidase family M1	2.60E-249
123	1329472.2	151	609	forward 1	ig	Immunoglobulin domain	1.50E-08
127	898779CD1	136	239		Gal-bind_lectin	Vertebrate galactoside-binding lectins	3.80E-50
129	1843408CD1	29	622		PEPCK	Phosphoenolpyruvate carboxykinase	0.00E+00
132	983354.2	7	141	forward 1	FYVE	FYVE zinc finger	2.20E-15
133	235845.2	300	998	forward 3	transmembrane4	Transmembrane 4 family	2.70E-42
146	1329606.3	386	592	forward 2	ig	Immunoglobulin domain	1.40E-07
148	474322.38	1405	1542	forward 1	phoslip	Phospholipase A2	2.80E-18
149	255002.3	2	253	forward 2	UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	1.30E-24
149	255002.3	229	312	forward 1	UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	1.10E-10
152	3699582CD1	28	525		UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	0.00E+00
153	344537.24	114	1607	forward 3	UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	0.00E+00
156	406977.2	189	1355	forward 3	thiolase	Thiolase	1.00E-230
158	3355973CD1	90	401		filament	Intermediate filament proteins	5.40E-173
161	2190217CD1	32	60		efhand	EF hand	6.50E-09
163	1262593.2	467	568	forward 2	TPR	TPR Domain	3.30E-11
166	2434655CD1	24	525		UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	1.50E-285
168	1075717.7	1131	1214	forward 3	hormone2	Peptide hormone	7.60E-10
169	1075717.1	292	375	forward 1	hormone2	Peptide hormone	1.90E-15
171	148512.1	122	658	forward 2	PMP22_Claudin	PMP-22/EMP/MP20/Claudin family	8.70E-37
173	2023119CD1	39	665		PHO4	Phosphate transporter family	7.60E-268
175	1973832CD1	25	93		IL8	Small cytokines (intecrine/chemokine), interleukin-8 like	2.50E-34
176	241888.54	299	505	forward 2	IL8	Small cytokines (intecrine/chemokine), interleukin-8 like	2.50E-34
182	1434821CD1	30	71		trefoil	Trefoil (P-type) domain	1.00E-24

Table 6

183	464689.64	608	1342	forward 2	Desaturase	Fatty acid desaturase	1.20E-163
185	1384719.3	1221	1457	forward 3	PDGF	Platelet-derived growth factor (PDGF)	2.50E-53
188	522433CD1	211	308		TGF-beta	Transforming growth factor beta like domain	6.80E-19
189	480489.5	813	1547	forward 3	UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	6.50E-189
189	480489.5	86	859	forward 2	UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	9.00E-138
190	480489.2	235	504	forward 1	UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	1.60E-65
194	088078CD1	24	527		UDPGT	UDP-glucoronosyl and UDP-glucosyl transferases	0.00E+00

Table 7

SEQ ID NO	TEMPLATE ID	START	STOP	FRAME	DOMAIN
2	995839.2	140	202	forward 2	SP
5	6512.8	65	127	forward 2	SP
5	6512.8	65	139	forward 2	SP
5	6512.8	65	142	forward 2	SP
5	6512.8	65	130	forward 2	SP
8	330923.5	1073	1120	forward 2	SP
8	330923.5	1750	1809	forward 1	TM
8	330923.5	2203	2259	forward 1	TM
8	330923.5	1049	1111	forward 2	TM
8	330923.5	1049	1126	forward 2	TM
8	330923.5	2519	2581	forward 2	SP
8	330923.5	1055	1111	forward 2	SP
8	330923.5	2519	2590	forward 2	TM
8	330923.5	2377	2427	forward 1	TM
8	330923.5	3512	3565	forward 2	SP
8	330923.5	3512	3571	forward 2	SP
8	330923.5	2379	2432	forward 3	TM
8	330923.5	2373	2432	forward 3	TM
8	330923.5	3512	3580	forward 2	SP
8	330923.5	2519	2590	forward 2	SP
8	330923.5	2883	2960	forward 3	TM
8	330923.5	2531	2578	forward 2	TM
8	330923.5	2381	2431	forward 2	TM
8	330923.5	1058	1111	forward 2	TM
8	330923.5	2375	2431	forward 2	TM
8	330923.5	2510	2569	forward 2	TM
8	330923.5	3517	3579	forward 1	TM
8	330923.5	2510	2584	forward 2	TM
8	330923.5	2501	2584	forward 2	TM
8	330923.5	1049	1108	forward 2	TM
9	234630.57	1978	2040	forward 1	SP
9	234630.57	163	228	forward 1	SP
9	234630.57	1981	2040	forward 1	TM
9	234630.57	3108	3173	forward 3	SP
9	234630.57	1987	2049	forward 1	TM
9	234630.57	1975	2040	forward 1	SP
9	234630.57	1966	2037	forward 1	TM
9	234630.57	1975	2028	forward 1	SP
9	234630.57	1978	2022	forward 1	SP
9	234630.57	1984	2046	forward 1	TM
9	234630.57	1972	2025	forward 1	TM
9	234630.57	3126	3182	forward 3	TM
9	234630.57	163	222	forward 1	SP
13	2072479CD1	8	31		SP
13	2072479CD1	8	25		SP
13	2072479CD1	8	27		SP
13	2072479CD1	8	29		SP
14	410911.5	2421	2483	forward 3	TM
14	410911.5	2421	2471	forward 3	SP
14	410911.5	2421	2504	forward 3	TM
14	410911.5	2421	2480	forward 3	TM
16	1285632CD1	428	447		SP

Table 7

16	1285632CD1	651	674		TM
16	1285632CD1	595	615		SP
16	1285632CD1	595	617		SP
16	1285632CD1	438	458		TM
16	1285632CD1	296	318		SP
16	1285632CD1	406	426		TM
16	1285632CD1	1	28		SP
16	1285632CD1	364	383		TM
16	1285632CD1	303	320		SP
16	1285632CD1	308	326		TM
16	1285632CD1	654	672		TM
16	1285632CD1	436	452		TM
16	1285632CD1	437	455		TM
16	1285632CD1	428	452		SP
16	1285632CD1	713	733		TM
16	1285632CD1	303	326		TM
16	1285632CD1	711	731		TM
16	1285632CD1	595	617		SP
16	1285632CD1	713	734		SP
16	1285632CD1	317	334		TM
16	1285632CD1	303	325		TM
16	1285632CD1	713	728		TM
16	1285632CD1	655	675		TM
16	1285632CD1	725	748		TM
16	1285632CD1	522	541		TM
16	1285632CD1	433	455		TM
16	1285632CD1	658	678		TM
16	1285632CD1	713	731		TM
16	1285632CD1	595	622		SP
16	1285632CD1	714	739		TM
17	474322.36	169	249	forward 1	SP
17	474322.36	184	237	forward 1	TM
17	474322.36	190	255	forward 1	SP
17	474322.36	190	237	forward 1	SP
17	474322.36	190	243	forward 1	SP
17	474322.36	190	249	forward 1	SP
25	3220207CD1	10	32		SP
25	3220207CD1	12	32		SP
25	3220207CD1	1	26		SP
25	3220207CD1	12	29		SP
25	3220207CD1	1	27		SP
25	3220207CD1	12	27		SP
26	203309.2	724	768	forward 1	SP
26	203309.2	691	762	forward 1	SP
26	203309.2	691	756	forward 1	SP
26	203309.2	2023	2082	forward 1	TM
27	998971.1	758	814	forward 2	TM
27	998971.1	281	337	forward 2	TM
28	333076.1	1777	1836	forward 1	SP
28	333076.1	1372	1428	forward 1	SP
28	333076.1	1085	1162	forward 2	SP
28	333076.1	1730	1795	forward 2	SP
28	333076.1	1777	1845	forward 1	SP

Table 7

28	333076.1	625	690	forward 1	SP
28	333076.1	1730	1801	forward 2	SP
28	333076.1	3801	3857	forward 3	TM
28	333076.1	1807	1863	forward 1	TM
28	333076.1	1275	1325	forward 3	SP
28	333076.1	1275	1331	forward 3	SP
28	333076.1	3227	3277	forward 2	TM
30	989613CD1	718	737		TM
30	989613CD1	1	19		SP
30	989613CD1	1	24		SP
30	989613CD1	1	21		SP
30	989613CD1	1	23		SP
32	2921920CD1	4	20		SP
32	2921920CD1	1	17		TM
32	2921920CD1	4	23		SP
32	2921920CD1	1	28		SP
32	2921920CD1	8	26		SP
32	2921920CD1	4	26		SP
32	2921920CD1	1	26		SP
33	997080.1	1473	1550	forward 3	TM
33	997080.1	2741	2791	forward 2	TM
33	997080.1	2726	2791	forward 2	SP
33	997080.1	1668	1724	forward 3	TM
33	997080.1	1503	1565	forward 3	TM
33	997080.1	501	554	forward 3	SP
33	997080.1	2747	2809	forward 2	TM
33	997080.1	300	362	forward 3	TM
33	997080.1	2704	2766	forward 1	SP
33	997080.1	1677	1730	forward 3	TM
33	997080.1	30	92	forward 3	SP
33	997080.1	30	104	forward 3	SP
33	997080.1	30	86	forward 3	SP
33	997080.1	2729	2785	forward 2	TM
33	997080.1	30	98	forward 3	SP
35	5517972CD1	494	522		TM
35	5517972CD1	548	568		SP
35	5517972CD1	548	566		SP
35	5517972CD1	481	505		SP
35	5517972CD1	514	535		SP
35	5517972CD1	548	569		SP
35	5517972CD1	541	557		TM
35	5517972CD1	396	417		TM
35	5517972CD1	544	564		TM
35	5517972CD1	543	570		TM
35	5517972CD1	538	556		TM
36	1397781.7	2189	2254	forward 2	SP
36	1397781.7	2207	2290	forward 2	TM
36	1397781.7	1444	1554	forward 1	SP
36	1397781.7	2204	2257	forward 2	TM
36	1397781.7	2207	2263	forward 2	TM
37	236655.3	102	149	forward 3	SP
37	236655.3	84	140	forward 3	SP
37	236655 3	84	149	forward 3	SP

Table 7

37	236655.3	84	149	forward 3	SP
37	236655.3	84	155	forward 3	SP
38	345275.4	2128	2211	forward 1	SP
38	345275.4	415	483	forward 1	TM
38	345275.4	1276	1335	forward 1	SP
38	345275.4	115	171	forward 1	TM
38	345275.4	1276	1344	forward 1	SP
38	345275.4	226	282	forward 1	SP
38	345275.4	226	285	forward 1	TM
38	345275.4	2152	2205	forward 1	TM
38	345275.4	2146	2208	forward 1	TM
38	345275.4	442	501	forward 1	TM
38	345275.4	2237	2299	forward 2	TM
38	345275.4	97	168	forward 1	TM
38	345275.4	226	288	forward 1	SP
42	1401116.1	313	369	forward 1	SP
42	1401116.1	313	381	forward 1	SP
42	1401116.1	15	71	forward 3	SP
42	1401116.1	313	375	forward 1	SP
42	1401116.1	313	384	forward 1	SP
42	1401116.1	15	74	forward 3	SP
44	2921009CD1	1	26		SP
45	255115.4	360	419	forward 3	TM
45	255115.4	52	123	forward 1	SP
45	255115.4	52	120	forward 1	SP
45	255115.4	52	108	forward 1	SP
45	255115.4	52	114	forward 1	SP
45	255115.4	1511	1570	forward 2	TM
46	1213592.1	39	95	forward 3	SP
46	1213592.1	39	98	forward 3	SP
48	1376382CD1	1	20		SP
48	1376382CD1	1	19		SP
48	1376382CD1	1	22		SP
54	2771481CD1	893	913		TM
54	2771481CD1	2	26		TM
54	2771481CD1	895	913		TM
54	2771481CD1	1	24		SP
54	2771481CD1	898	915		TM
54	2771481CD1	1	18		SP
54	2771481CD1	1	22		SP
54	2771481CD1	1	21		SP
55	1400916.1	21	83	forward 3	SP
55	1400916.1	21	77	forward 3	SP
56	253986.11	379	459	forward 1	SP
56	253986.11	379	462	forward 1	SP
59	2680109CD1	1	20		SP
59	2680109CD1	642	663		TM
59	2680109CD1	1	17		SP
59	2680109CD1	1	18		SP
61	1800311CD1	1	24		SP
61	1800311CD1	1	23		SP
61	1800311CD1	1	19		SP
61	1800311CD1	1	21		SP

Table 7

61	1800311CD1	1	16		SP
63	1804734CD1	231	251		TM
63	1804734CD1	41	60		TM
65	3231154CD1	5	21		SP
65	3231154CD1	241	257		TM
65	3231154CD1	238	258		TM
65	3231154CD1	234	256		TM
65	3231154CD1	237	256		TM
65	3231154CD1	236	259		TM
66	210095.11	1405	1455	forward 1	TM
66	210095.11	1366	1425	forward 1	TM
66	210095.11	1393	1440	forward 1	SP
66	210095.11	2633	2692	forward 2	SP
66	210095.11	1378	1455	forward 1	TM
66	210095.11	1384	1455	forward 1	TM
66	210095.11	1384	1446	forward 1	TM
66	210095.11	94	195	forward 1	SP
68	2719813CD1	1	20		SP
68	2719813CD1	1	17		SP
68	2719813CD1	1	18		SP
71	25685.3	177	245	forward 3	SP
71	25685.3	177	233	forward 3	SP
71	25685.3	177	239	forward 3	SP
73	1808144CD1	420	443		TM
73	1808144CD1	474	495		SP
73	1808144CD1	342	361		TM
73	1808144CD1	413	433		TM
73	1808144CD1	419	441		SP
73	1808144CD1	474	493		SP
73	1808144CD1	257	272		TM
73	1808144CD1	188	208		TM
73	1808144CD1	412	438		TM
73	1808144CD1	419	433		TM
73	1808144CD1	471	497		TM
73	1808144CD1	412	431		TM
73	1808144CD1	477	500		TM
73	1808144CD1	469	487		TM
73	1808144CD1	409	429		TM
73	1808144CD1	471	495		TM
74	201356.1	3004	3063	forward 1	SP
74	201356.1	3057	3122	forward 3	SP
74	201356.1	3189	3263	forward 3	TM
74	201356.1	330	416	forward 3	TM
74	201356.1	1772	1828	forward 2	TM
74	201356.1	2364	2426	forward 3	TM
74	201356.1	1772	1855	forward 2	TM
74	201356.1	2122	2184	forward 1	TM
75	978178.7	1174	1221	forward 1	TM
75	978178.7	979	1032	forward 1	TM
75	978178.7	1414	1476	forward 1	TM
75	978178.7	970	1026	forward 1	TM
75	978178.7	1420	1494	forward 1	TM
75	978178.7	1144	1200	forward 1	TM

Table 7

77	1100412.5	27	83	forward 3	TM
77	1100412.5	2217	2270	forward 3	TM
77	1100412.5	2715	2774	forward 3	SP
77	1100412.5	15	68	forward 3	SP
77	1100412.5	2640	2723	forward 3	TM
77	1100412.5	788	850	forward 2	TM
77	1100412.5	15	83	forward 3	SP
77	1100412.5	15	83	forward 3	SP
77	1100412.5	15	68	forward 3	SP
77	1100412.5	15	74	forward 3	SP
78	1100412.4	1239	1313	forward 3	SP
78	1100412.4	89	145	forward 2	TM
78	1100412.4	2273	2326	forward 2	TM
78	1100412.4	2771	2830	forward 2	SP
78	1100412.4	77	130	forward 2	SP
78	1100412.4	2696	2779	forward 2	TM
78	1100412.4	849	911	forward 3	TM
78	1100412.4	77	145	forward 2	SP
78	1100412.4	77	145	forward 2	SP
78	1100412.4	77	130	forward 2	SP
78	1100412.4	77	136	forward 2	SP
82	611082CD1	97	121		SP
82	611082CD1	207	229		SP
82	611082CD1	178	198		TM
82	611082CD1	164	190		SP
82	611082CD1	162	180		TM
82	611082CD1	160	177		TM
82	611082CD1	207	221		SP
82	611082CD1	164	187		SP
83	255002.4	93	182	forward 3	SP
83	255002.4	1564	1629	forward 1	TM
83	255002.4	1564	1620	forward 1	TM
83	255002.4	93	152	forward 3	SP
84	1092257.2	2525	2581	forward 2	TM
84	1092257.2	374	430	forward 2	TM
85	1102315.3	279	344	forward 3	TM
85	1102315.3	282	332	forward 3	TM
85	1102315.3	910	999	forward 1	SP
85	1102315.3	300	356	forward 3	TM
85	1102315.3	285	347	forward 3	TM
88	232992.1	433	492	forward 1	SP
88	232992.1	997	1074	forward 1	SP
88	232992.1	418	492	forward 1	SP
88	232992.1	381	455	forward 3	TM
88	232992.1	424	480	forward 1	TM
88	232992.1	3009	3062	forward 3	SP
88	232992.1	131	187	forward 2	TM
88	232992.1	378	431	forward 3	TM
88	232992.1	541	597	forward 1	TM
88	232992.1	409	477	forward 1	TM
88	232992.1	664	744	forward 1	SP
88	232992.1	381	458	forward 3	TM
88	232992.1	427	492	forward 1	SP

Table 7

88	232992.1	436	492	forward 1	SP
88	232992.1	421	474	forward 1	TM
88	232992.1	375	434	forward 3	TM
91	343502.1	1777	1833	forward 1	SP
91	343502.1	231	284	forward 3	SP
91	343502.1	231	278	forward 3	SP
91	343502.1	231	290	forward 3	SP
93	1635966CD1	1	19		TM
93	1635966CD1	8	27		TM
93	1635966CD1	1	24		SP
93	1635966CD1	1	17		SP
93	1635966CD1	1	20		SP
93	1635966CD1	1	23		SP
93	1635966CD1	1	18		SP
99	409895.2	384	437	forward 3	SP
102	239568.4	416	478	forward 2	SP
106	255803.1	436	519	forward 1	SP
106	255803.1	283	360	forward 1	SP
106	255803.1	283	348	forward 1	SP
106	255803.1	337	396	forward 1	SP
106	255803.1	307	360	forward 1	SP
106	255803.1	307	396	forward 1	SP
111	141804.1	37	87	forward 1	TM
122	1344279CD1	16	34		TM
122	1344279CD1	13	33		TM
122	1344279CD1	9	31		TM
123	1329472.2	52	114	forward 1	SP
123	1329472.2	52	108	forward 1	SP
124	474457.35	387	452	forward 3	SP
124	474457.35	449	508	forward 2	TM
125	474457.45	330	395	forward 3	SP
125	474457.45	392	451	forward 2	TM
130	351241.1	430	480	forward 1	TM
131	413348.4	99	173	forward 3	SP
131	413348.4	2300	2374	forward 2	SP
131	413348.4	811	864	forward 1	SP
131	413348.4	526	585	forward 1	SP
131	413348.4	511	570	forward 1	TM
131	413348.4	1742	1825	forward 2	TM
131	413348.4	1625	1678	forward 2	TM
131	413348.4	1475	1534	forward 2	TM
131	413348.4	111	179	forward 3	SP
131	413348.4	117	164	forward 3	SP
131	413348.4	1615	1668	forward 1	TM
131	413348.4	814	879	forward 1	SP
131	413348.4	511	585	forward 1	SP
131	413348.4	814	861	forward 1	SP
131	413348.4	117	179	forward 3	SP
131	413348.4	117	173	forward 3	SP
132	983354.2	3750	3806	forward 3	TM
132	983354.2	1905	1961	forward 3	TM
132	983354.2	4122	4190	forward 3	SP
132	983354.2	1197	1280	forward 3	SP

Table 7

132	983354.2	3188	3277	forward 2	SP
132	983354.2	4122	4175	forward 3	SP
132	983354.2	2994	3065	forward 3	SP
132	983354.2	3221	3274	forward 2	TM
132	983354.2	4236	4298	forward 3	SP
132	983354.2	4236	4283	forward 3	SP
132	983354.2	1197	1274	forward 3	SP
133	235845.2	448	534	forward 1	SP
133	235845.2	531	596	forward 3	SP
133	235845.2	438	500	forward 3	SP
133	235845.2	537	596	forward 3	SP
133	235845.2	561	614	forward 3	TM
133	235845.2	303	365	forward 3	TM
133	235845.2	318	368	forward 3	SP
133	235845.2	312	383	forward 3	TM
133	235845.2	315	374	forward 3	SP
133	235845.2	318	374	forward 3	SP
133	235845.2	315	383	forward 3	SP
133	235845.2	462	518	forward 3	TM
133	235845.2	537	593	forward 3	TM
133	235845.2	312	377	forward 3	TM
133	235845.2	318	380	forward 3	TM
133	235845.2	543	614	forward 3	TM
133	235845.2	312	398	forward 3	TM
133	235845.2	549	617	forward 3	TM
134	266360.18	788	841	forward 2	TM
134	266360.18	669	734	forward 3	SP
134	266360.18	753	815	forward 3	TM
134	266360.18	678	740	forward 3	TM
135	266360.15	524	589	forward 2	SP
135	266360.15	533	595	forward 2	TM
136	1310030.1	31	102	forward 1	SP
136	1310030.1	31	87	forward 1	SP
136	1310030.1	31	93	forward 1	SP
139	349615.7	596	655	forward 2	TM
139	349615.7	589	657	forward 1	SP
139	349615.7	45	119	forward 3	TM
139	349615.7	591	671	forward 3	TM
139	349615.7	585	644	forward 3	SP
139	349615.7	372	431	forward 3	SP
139	349615.7	550	663	forward 1	SP
139	349615.7	601	675	forward 1	TM
139	349615.7	585	638	forward 3	TM
139	349615.7	613	675	forward 1	TM
139	349615.7	372	425	forward 3	SP
139	349615.7	591	650	forward 3	TM
139	349615.7	590	643	forward 2	SP
139	349615.7	601	660	forward 1	TM
139	349615.7	586	636	forward 1	TM
141	632664CD1	57	75		TM
142	995929.22	590	655	forward 2	SP
142	995929.22	866	949	forward 2	SP
142	995929.22	602	655	forward 2	SP

Table 7

143	995929.27	1490	1549	forward 2	SP
143	995929.27	1469	1543	forward 2	SP
143	995929.27	1481	1549	forward 2	SP
143	995929.27	1848	1907	forward 3	SP
143	995929.27	1848	1892	forward 3	SP
143	995929.27	586	669	forward 1	SP
143	995929.27	1172	1222	forward 2	SP
144	1397029.1	192	251	forward 3	TM
146	1329606.3	778	849	forward 1	SP
146	1329606.3	824	892	forward 2	SP
146	1329606.3	279	332	forward 3	SP
147	1092257.12	60	116	forward 3	TM
148	474322.38	836	898	forward 2	SP
152	3699582CD1	8	25		SP
152	3699582CD1	5	27		SP
152	3699582CD1	488	505		TM
152	3699582CD1	492	512		TM
152	3699582CD1	487	507		TM
152	3699582CD1	1	27		SP
152	3699582CD1	1	27		SP
153	344537.24	1494	1547	forward 3	TM
153	344537.24	1506	1568	forward 3	TM
153	344537.24	430	501	forward 1	SP
153	344537.24	1491	1553	forward 3	TM
153	344537.24	30	107	forward 3	SP
153	344537.24	30	113	forward 3	SP
155	104423.33	168	224	forward 3	SP
155	104423.33	1348	1395	forward 1	SP
155	104423.33	2727	2780	forward 3	TM
155	104423.33	2778	2867	forward 3	SP
155	104423.33	2739	2792	forward 3	SP
155	104423.33	2739	2813	forward 3	SP
155	104423.33	2739	2798	forward 3	SP
155	104423.33	2739	2807	forward 3	SP
156	406977.2	1030	1089	forward 1	TM
156	406977.2	1444	1518	forward 1	TM
159	406457.3	1410	1469	forward 3	SP
159	406457.3	2079	2150	forward 3	TM
159	406457.3	1911	1973	forward 3	SP
159	406457.3	1911	1979	forward 3	SP
159	406457.3	1440	1502	forward 3	TM
159	406457.3	1014	1082	forward 3	SP
159	406457.3	1344	1406	forward 3	TM
159	406457.3	129	212	forward 3	SP
159	406457.3	1035	1088	forward 3	SP
159	406457.3	4222	4275	forward 1	TM
159	406457.3	1050	1106	forward 3	TM
159	406457.3	2088	2144	forward 3	TM
159	406457.3	1434	1484	forward 3	TM
159	406457.3	1437	1493	forward 3	TM
159	406457.3	1410	1484	forward 3	SP
159	406457.3	2265	2327	forward 3	TM
159	406457.3	1035	1106	forward 3	TM

Table 7

159	406457.3	2259	2321	forward 3	TM
159	406457.3	1911	1979	forward 3	SP
159	406457.3	2265	2330	forward 3	SP
159	406457.3	1077	1130	forward 3	TM
159	406457.3	1035	1103	forward 3	TM
159	406457.3	4447	4503	forward 1	TM
159	406457.3	2265	2312	forward 3	TM
159	406457.3	2091	2153	forward 3	TM
159	406457.3	2301	2372	forward 3	TM
159	406457.3	1692	1751	forward 3	TM
159	406457.3	1425	1493	forward 3	TM
159	406457.3	2100	2162	forward 3	TM
159	406457.3	2265	2321	forward 3	TM
159	406457.3	1911	1994	forward 3	SP
159	406457.3	5115	5192	forward 3	TM
159	406457.3	2268	2345	forward 3	TM
162	29061.1	179	238	forward 2	TM
162	29061.1	230	289	forward 2	SP
162	29061.1	984	1040	forward 3	TM
162	29061.1	655	708	forward 1	TM
162	29061.1	227	295	forward 2	SP
162	29061.1	217	291	forward 1	TM
162	29061.1	236	289	forward 2	SP
162	29061.1	987	1067	forward 3	TM
163	1262593.2	2388	2435	forward 3	SP
163	1262593.2	2390	2446	forward 2	TM
163	1262593.2	1320	1370	forward 3	TM
163	1262593.2	2373	2435	forward 3	TM
163	1262593.2	2388	2441	forward 3	SP
163	1262593.2	2379	2426	forward 3	TM
163	1262593.2	946	1008	forward 1	TM
163	1262593.2	2373	2426	forward 3	TM
164	1094812.1	249	335	forward 3	SP
164	1094812.1	214	264	forward 1	TM
164	1094812.1	175	234	forward 1	TM
164	1094812.1	202	249	forward 1	SP
164	1094812.1	187	264	forward 1	TM
164	1094812.1	193	264	forward 1	TM
164	1094812.1	193	255	forward 1	TM
166	2434655CD1	482	507		TM
166	2434655CD1	492	512		TM
166	2434655CD1	158	175		SP
166	2434655CD1	91	111		TM
166	2434655CD1	1	21		SP
166	2434655CD1	1	25		SP
166	2434655CD1	1	19		SP
166	2434655CD1	1	23		SP
167	206344.1	694	744	forward 1	TM
168	1075717.7	981	1037	forward 3	SP
168	1075717.7	981	1031	forward 3	SP
168	1075717.7	981	1049	forward 3	SP
168	1075717.7	973	1038	forward 1	SP
168	1075717.7	981	1040	forward 3	SP

Table 7

169	1075717.1	136	195	forward 1	SP
170	372647.1	63	134	forward 3	TM
170	372647.1	81	143	forward 3	SP
170	372647.1	66	113	forward 3	TM
170	372647.1	66	128	forward 3	TM
171	148512.1	368	439	forward 2	SP
171	148512.1	368	424	forward 2	TM
171	148512.1	467	523	forward 2	TM
171	148512.1	494	556	forward 2	TM
171	148512.1	470	523	forward 2	TM
171	148512.1	131	199	forward 2	TM
173	2023119CD1	653	672		TM
173	2023119CD1	23	50		TM
173	2023119CD1	167	185		TM
173	2023119CD1	653	676		TM
173	2023119CD1	562	587		TM
173	2023119CD1	160	184		TM
173	2023119CD1	24	38		SP
173	2023119CD1	232	250		TM
173	2023119CD1	24	41		SP
173	2023119CD1	19	37		TM
173	2023119CD1	22	40		TM
173	2023119CD1	227	250		TM
173	2023119CD1	160	182		SP
175	1973832CD1	1	26		SP
175	1973832CD1	1	18		SP
175	1973832CD1	1	24		SP
175	1973832CD1	1	20		SP
175	1973832CD1	1	22		SP
176	241888.54	251	328	forward 2	SP
176	241888.54	1149	1223	forward 3	TM
176	241888.54	1697	1759	forward 2	TM
176	241888.54	251	304	forward 2	SP
176	241888.54	251	322	forward 2	SP
176	241888.54	251	310	forward 2	SP
176	241888.54	251	316	forward 2	SP
178	1736965CD1	1	16		TM
178	1736965CD1	1	20		TM
178	1736965CD1	1	16		SP
178	1736965CD1	1	21		SP
178	1736965CD1	1	23		SP
178	1736965CD1	1	24		SP
178	1736965CD1	1	18		SP
179	412065.17	1614	1688	forward 3	SP
180	988660.32	115	159	forward 1	SP
180	988660.32	103	177	forward 1	SP
180	988660.32	795	857	forward 3	SP
180	988660.32	103	159	forward 1	SP
180	988660.32	103	165	forward 1	SP
180	988660.32	103	177	forward 1	SP
180	988660.32	103	171	forward 1	SP
182	1434821CD1	4	21		TM
182	1434821CD1	4	21		SP

Table 7

182	1434821CD1	1	26		SP
182	1434821CD1	4	26		SP
182	1434821CD1	4	24		SP
182	1434821CD1	1	24		SP
183	464689.64	638	712	forward 2	TM
183	464689.64	4701	4760	forward 3	SP
185	1384719.3	2975	3046	forward 2	TM
185	1384719.3	3241	3312	forward 1	TM
185	1384719.3	1086	1154	forward 3	SP
185	1384719.3	2613	2702	forward 3	SP
185	1384719.3	3351	3422	forward 3	TM
185	1384719.3	3214	3273	forward 1	TM
185	1384719.3	1086	1148	forward 3	SP
185	1384719.3	2999	3052	forward 2	SP
185	1384719.3	2637	2696	forward 3	TM
185	1384719.3	3336	3410	forward 3	TM
185	1384719.3	2014	2088	forward 1	TM
185	1384719.3	2999	3046	forward 2	SP
185	1384719.3	180	233	forward 3	TM
185	1384719.3	3204	3263	forward 3	TM
185	1384719.3	2978	3055	forward 2	TM
185	1384719.3	3348	3410	forward 3	TM
185	1384719.3	1086	1157	forward 3	SP
185	1384719.3	3366	3419	forward 3	TM
185	1384719.3	3360	3419	forward 3	TM
186	407463.1	3238	3321	forward 1	SP
186	407463.1	4943	4999	forward 2	TM
186	407463.1	2108	2179	forward 2	SP
186	407463.1	2114	2185	forward 2	TM
186	407463.1	1807	1860	forward 1	SP
186	407463.1	2605	2652	forward 1	SP
186	407463.1	2144	2206	forward 2	TM
186	407463.1	3238	3309	forward 1	SP
186	407463.1	4925	4975	forward 2	TM
188	522433CD1	14	31		SP
188	522433CD1	14	33		SP
188	522433CD1	6	31		SP
188	522433CD1	1	29		SP
189	480489.5	1494	1559	forward 3	TM
189	480489.5	17	73	forward 2	SP
189	480489.5	17	85	forward 2	SP
189	480489.5	1174	1236	forward 1	SP
189	480489.5	1482	1553	forward 3	TM
189	480489.5	17	79	forward 2	SP
189	480489.5	17	88	forward 2	SP
189	480489.5	1497	1559	forward 3	TM
189	480489.5	1150	1239	forward 1	SP
190	480489.2	184	246	forward 1	SP
190	480489.2	406	471	forward 1	TM
190	480489.2	184	234	forward 1	SP
190	480489.2	394	465	forward 1	TM
190	480489.2	409	471	forward 1	TM
192	1737775CD1	1	25		SP

Table 7

192	1737775CD1	1	23	SP
192	1737775CD1	1	21	SP
194	088078CD1	8	28	TM
194	088078CD1	1	21	SP
194	088078CD1	493	514	TM
194	088078CD1	1	23	SP
194	088078CD1	1	19	SP
194	088078CD1	494	514	TM